

Type 5HT / 5HTP

Time-lag Fuse Series (High -Breaking Capacity)

HF  5HT/5HTP Series, 5x20mm Ceramic Tube Time-Lag Fuse

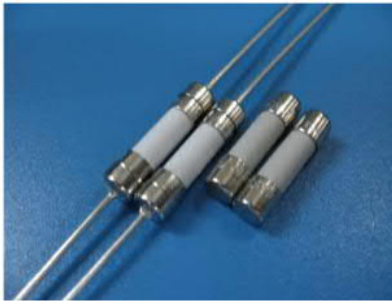
RoHS Compliant

Description

5x20mm Time-Lag surge withstand, high breaking capacity, ceramic body cartridge fuse designed, approved and complied with IEC 60127-2, standard sheet 5.

Features

- High breaking capacity (250V ac @1500A)
- Meet IEC standard 60127-2, sheet 5
- Wide operating temperature range
- Bulk and Tape & Reel packing available
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863
- Halogen Free
- Lead Free



Applications

Provide individual protection for components or internal circuits.

- Power supplies
- Battery charger
- Monitor
- Adapter

LEAD FREE = 
HALOGEN FREE = 

Physical Specifications

Materials	Body : Ceramic
	Cap : Nickel Plated Brass Caps
	Leads : Matte Tin Plated Copper
Marking	On Fuse :
	"bel", "T", "Current Rating", "H", "250V",
	"Appropriate Safety Logos", "✓" (RoHS compliant)
	On Label :
	"bel", "5HT" or "5HTP", "T", "Current Rating", "H", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and "✓", "RoHS", "E" (China RoHS compliant).

Electrical Characteristics (IEC-127-2 STANDARD SHEET 5) Safety Agency Approvals

Rated Current	1.5 In		2.1 In		2.75 In		4 In		10 In	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
250mA to 3.15A	1	30	1	80	95	5	10	100		
4A to above	1	30	1	80	150	5	20	100		
	hr.	min.	sec	sec	ms	sec	ms	ms		

In clause 9.2, the test voltage for 5HTP ratings from 1A to 6.3A is 63VDC.

Safety Agency	Safety Agency Certificate	Ampere Rating/ Voltage Rating	Ampere Range / Volt @ I.R. ability*
	40000505	250mA-10A /250V AC	1A-10A/250V AC@1,500A
	E506667		250mA-10A/250V AC@1,500A
	Self-declaration No: 2025000207000003		250mA-10A/250V AC@1,500A
*I.R.= Interrupting Rating = Short Circuit Rating(Amps)			

Environmental Specifications

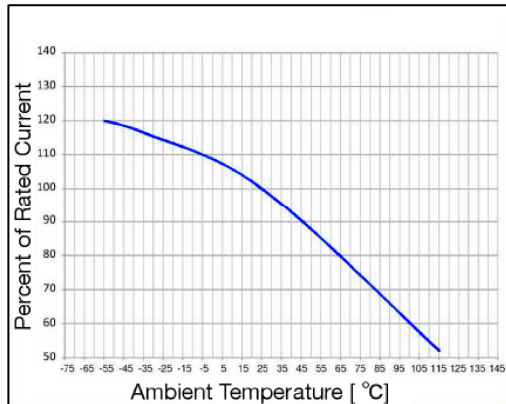
Shock Resistance	MIL-STD-202G, Method 213B, Test Condition 1 (100 G's peak for 6 milliseconds; Sawtooth waveform)
Vibration Resistance	MIL-STD-202G, Method 201A (10-55 Hz, 0.06 inch, total excursion).
Salt Spray Resistance	MIL-STD-202G, Method 101E, Test Condition B (48 hrs).
Insulation Resistance	MIL-STD-202G, Method 302, Test Condition B (After Opening) 100,000 ohms minimum.
Solderability	MIL-STD-202G, Method 208H
Resistance to solder Heat	MIL-STD-202G, Method 210F, Test Condition B. (260+/-5°C, 10+/-1 sec)
Thermal Shock	MIL-STD-202G, Method 107G, Test Condition B (-65°C to +125°C).
Operating Temperature	-55°C to +125°C
Terminal Strength	IEC-68-2-21

Electrical Specifications

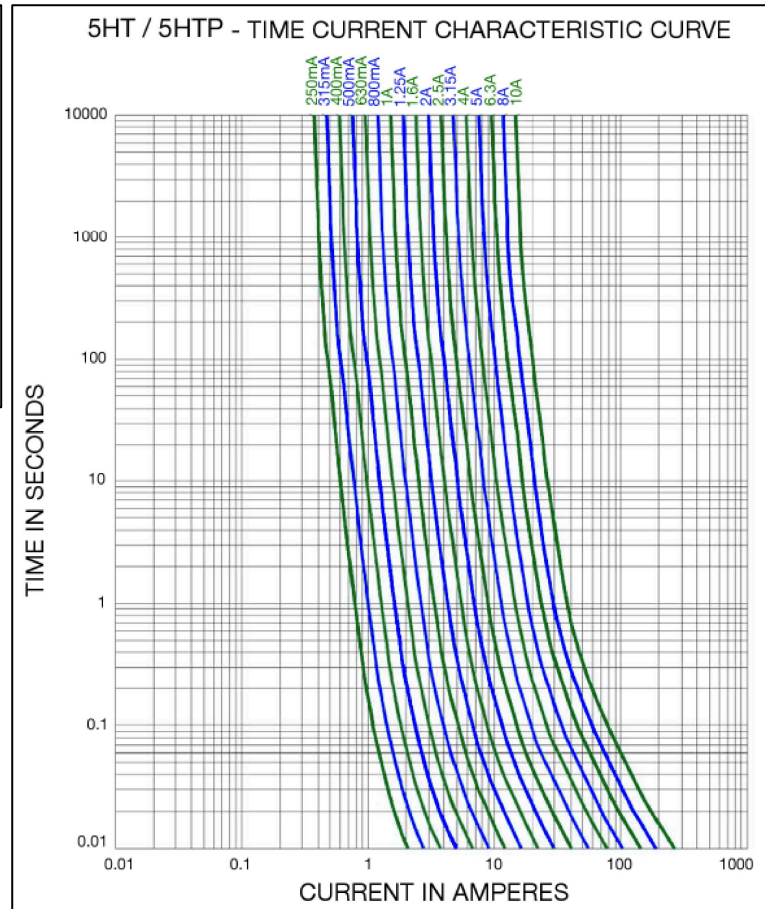
Catalog Number	Ampere Rating	Typical Cold Resistance (ohms)	Volt-drop @100%In (Volt) max.	Voltage and Interrupting Ratings	Melting I ² T <10 mSec (A ² Sec)	Melting I ² T @10 In (A ² Sec)	Maximum Power Dissipation (W)	Agency Approvals		
										
5HT(P) 250-R	250mA	3.41	1.16	See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings	0.10	0.12	0.34	Y	Y	
5HT(P) 315-R	315mA	2.08	0.90		0.18	0.22	0.38	Y	Y	
5HT(P) 400-R	400mA	1.47	0.73		0.28	0.34	0.41	Y	Y	
5HT(P) 500-R	500mA	1.03	0.66		0.46	0.58	0.48	Y	Y	
5HT(P) 630-R	630mA	0.63	0.51		0.70	0.90	0.55	Y	Y	
5HT(P) 800-R	800mA	0.39	0.40		1.1	1.5	0.64	Y	Y	
5HT(P) 1-R	1A	0.20	0.25		1.7	1.7	0.73	Y	Y	Y
5HT(P) 1.25-R	1.25A	0.14	0.24		3	3	0.81	Y	Y	Y
5HT(P) 1.6-R	1.6A	0.095	0.19		5	6	0.91	Y	Y	Y
5HT(P) 2-R	2A	0.069	0.18		10	11	1.00	Y	Y	Y
5HT(P) 2.5-R	2.5A	0.047	0.16		17	20	1.10	Y	Y	Y
5HT(P) 3.15-R	3.15A	0.031	0.13		31	38	1.20	Y	Y	Y
5HT(P) 4-R	4A	0.020	0.10		56	69	1.40	Y	Y	Y
5HT(P) 5-R	5A	0.015	0.10		101	128	1.50	Y	Y	Y
5HT(P) 6.3-R	6.3A	0.012	0.10		181	237	1.70	Y	Y	Y
5HT(P) 8-R	8A	0.008	0.09		330	439	2.70	Y	Y	Y
5HT(P) 10-R	10A	0.007	0.09		601	812	2.90	Y	Y	Y

Consult manufacturer for other ratings

Temperature Derating Curve

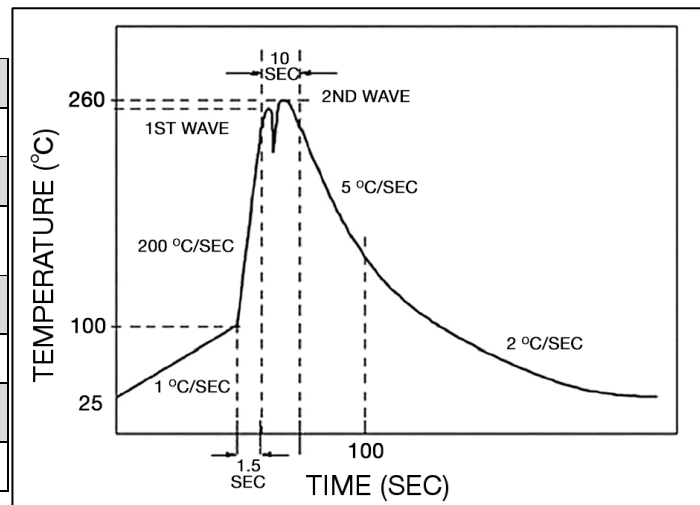


Average Time Current Curve



Soldering Parameters

Lead-free Wave Soldering Profile	
Wave Soldering Parameter	
Average ramp-up rate	200°C / second
Heating rate during preheat	typical 1 - 2°C / second Max 4°C / second
Final preheat temperature	within 125°C of soldering temperature
Peak temperature T _p	260°C
Time within +0°C / -5°C of actual peak temperature	10 seconds
Ramp-down rate	5°C / second max.



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Fuse FGNO Explanation

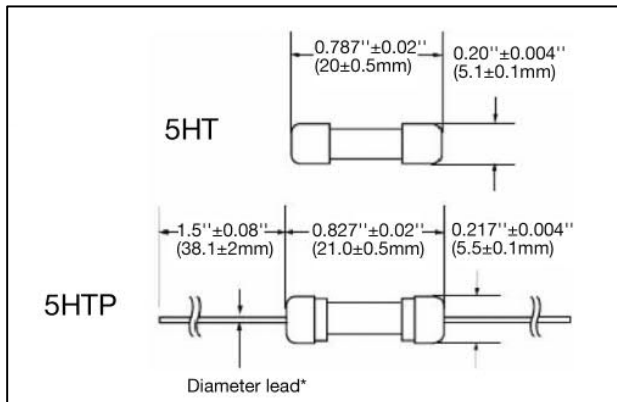
0659 R [XXXX] -XX

0659R=5HT/5HTP; [XXXX]=Ampere Rating; XX=See Ordering Information as below

Fraction	Decimal	Milliamps	Bel FGNO[XXXX]
1/4	0.250	250	0250
	.315	315	0315
4/10	.400	400	0400
1/2	.500	500	0500
	.630	630	0630
8/10	.800	800	0800

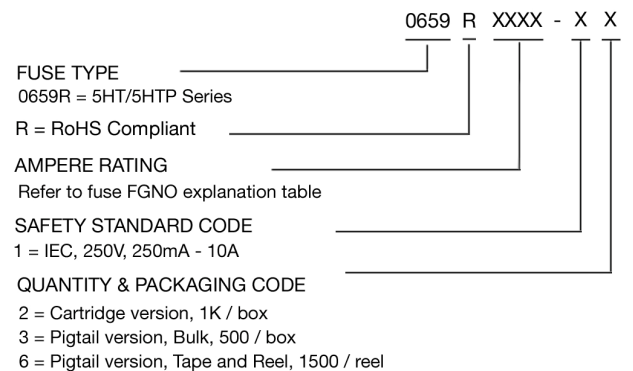
Fraction	Decimal	Amps	Bel FGNO[XXXX]
	1.0	1	1000
1-1/4	1.25	1.25	1250
	1.60	1.6	1600
	2.0	2	2000
2-1/2	2.5	2.5	2500
	3.15	3.15	3150
	4.0	4	4000
	5.0	5	5000
	6.3	6.3	6300
	8.0	8	8000
		10	9100

Mechanical Dimensions



*Ratings 6.3A and less have 0.032" ± 0.002" diameter lead;
*Ratings 8A and above have 0.039" ± 0.002" diameter lead.

Ordering Information



Packaging

Packaging Option	Packaging Specification	Quantity	Packaging Code	Inside Tape Spacing
Bulk	N/A	1000	12	N/A
Bulk (Pigtail Type)	N/A	500	13	N/A
Tape & Reel	EIA-296-F	1500	16	10mm Pitch and 63mm



Specifications subject to change without notice

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